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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/034,848		12/26/2001	Eric Sion	BDL-374XX	9636	
207	7590	06/04/2003				
		CHURGIN, GAGN	EXAMINER			
TEN POST BOSTON, I				CHEN, BRET P		
				ART UNIT	PAPER NUMBER	
				1762		
				DATE MAILED: 06/04/2003	;	

Please find below and/or attached an Office communication concerning this application or proceeding.

		fule_				
	Application No.	Applicant(s)				
	10/034,848	SION ET AL.				
Office Action Summ ry	Examiner	Art Unit				
	B. Chen	1762				
Th MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (D) (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 16 A	<u> April 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for alloward closed in accordance with the practice under						
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application						
4a) Of the above claim(s) <u>14-24</u> is/are withdraw	vii irom consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13</u> is/are rejected.						
7) Claim(s) is/are objected to.	r alastian rasuiramant					
8) Claim(s) are subject to restriction and/o Application Papers	r election requirement.					
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accept		miner.				
Applicant may not request that any objection to the	,					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in rep	ply to this Office action.					
12)☐ The oath or declaration is objected to by the Ex	aminer.					
Pri rity under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicat	ion No				
Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	_				
14)☐ Acknowledgment is made of a claim for domesti	•					
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti	visional application has been rec	eived.				
Attachment(s)	<u>-</u>					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Trademark Office						

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DETAILED ACTION

Claims 1-24 are pending in this application.

Election/Restrictions

Applicant's election with traverse of claims 1-13 in Paper No. 7 is acknowledged. The traversal is on the ground(s) that the addition claims are not seen as imposing an undue burden on the examiner. This is not found persuasive because the search and scope of the additional claims presents an undue burden on the examiner.

The requirement is still deemed proper and is therefore made FINAL.

Claims 14-24 are withdrawn from consideration as being directed to a nonelected invention

Specification

Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following: (1) if a machine or apparatus, its organization and operation;

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(2) if an article, its method of making;

- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

It is noted that the claimed invention is directed to a method. The examiner suggests amending the abstract to reflect same.

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

It is noted that the claimed invention is directed solely to a method. The examiner suggests amending the title to reflect same.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leluan et al. (6,001,419) or Robin-Brosse et al. (6,410,088). Leluan discloses a method for chemical vapor infiltration of a material into a porous substrate (col.1 lines 8-9). Densification by chemical vapor infiltration results by placing the substrate in a reaction chamber of an infiltration oven (col.6 lines 32-42). The substrate is placed in an enclosure, wherein a gas diffuse within

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the accessible internal pores of the substrate, which gas contains at least a precursor of the material in the gaseous state (col.1 lines 28-46).

Robin-Brosse discloses a CVI method of densifying porous substrates (col.1 lines 4-7) in which a heated gas is utilized (col.3 lines 5-27). However, the references remain silent on the use of the substrate for a matrix.

It is noted that the substrate can be utilized as a matrix as noted in Leluan in col.1 lines 10-15 and in Robin-Brosse in col.2 lines 55-60. One skilled in the art would realize that the substrate can be utilized as a matrix as taught by the prior art references and hence, would have been obvious to one skilled in the art because of its conventionality as noted above.

In claims 2-7, the applicant requires a specific temperature and pressure. It is believed that these are taught in the cited references. Regardless, it would have been obvious to one having ordinary skill in the art to have determined the optimum value of a cause effective variable such as temperature and pressure through routine experimentation in the absence of a showing of criticality.

The limitations of claims 8-13 have been addressed above.

Vaudel (5,362,228), Golecki et al. (5,348,774), and Rudolph et al. (5,900,297) have been provided for additional information.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed.

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Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-13 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-6 of U.S. Patent No. 5,738,908.

Although the conflicting claims are not identical, they are not patentably distinct from each other because the elimination of the temperatures and pressures is an obvious variation.

Claims 1-13 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-14 of U.S. Patent No. 5,789,026.

Although the conflicting claims are not identical, they are not patentably distinct from each other because the elimination of the recited materials is an obvious variation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Chen whose telephone number is (703) 308-3809. The examiner can normally be reached on 10 hour days.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive Beck can be reached on (703) 308-2333. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

bc June 1, 2003

BRET CHEN
PRIMARY EXAMINER